

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. – High Performance NeFeB Magnetic Solutions for Global Motor Applications

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. is a specialized manufacturer dedicated to the research, development, and production of high-quality magnetic components used in motors, industrial equipment, and advanced electromechanical systems. Located in Dongyang, Zhejiang Province, China, the company has developed strong technical capabilities in magnetic material processing and precision component manufacturing, serving a wide range of global industries including automotive, home appliances, industrial automation, and renewable energy systems.

With a strong engineering foundation and a focus on innovation, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. has become a trusted supplier of motor magnetic tiles and related components. Its products are widely recognized for stable magnetic performance, high precision, and durability in demanding operating environments. In particular, the company has built expertise in high performance NeFeB magnetic materials, which are essential for modern high-efficiency motors and compact energy systems.

Company Overview



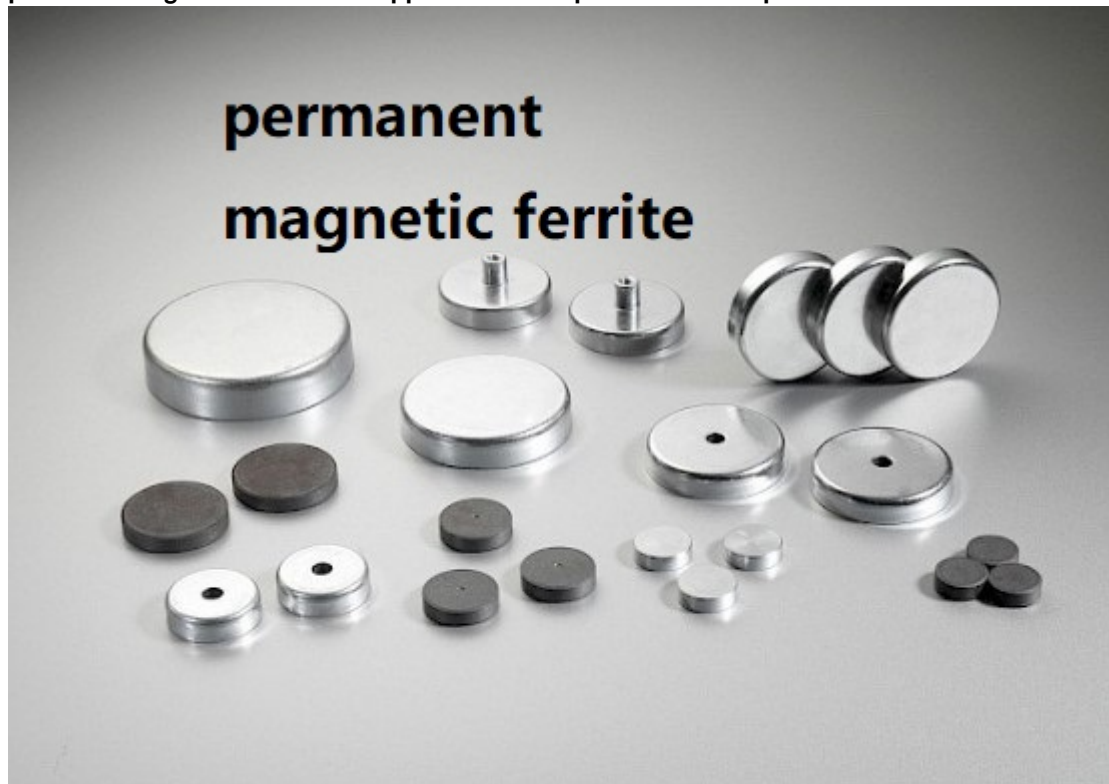
Founded with a focus on advancing motor magnetic technology, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. has grown steadily into a competitive manufacturer in the global magnetic materials industry. Over the years, the company has expanded its production capabilities, invested in advanced manufacturing equipment, and built a skilled technical team specializing in magnetic engineering.

The company's core mission is to provide reliable, efficient, and high-precision magnetic solutions that support the development of modern motor systems. With increasing global demand for energy-efficient motors, the role of advanced magnetic materials has become more important than ever. Tianqi responds to this demand by offering stable, high-performance products designed to meet strict industrial standards.

Through continuous improvement and technological advancement, the company has positioned itself as a reliable partner for manufacturers seeking consistent magnetic tile performance and long-term supply stability.

Product Range

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. specializes in a wide range of motor magnetic products designed for different applications and performance requirements.



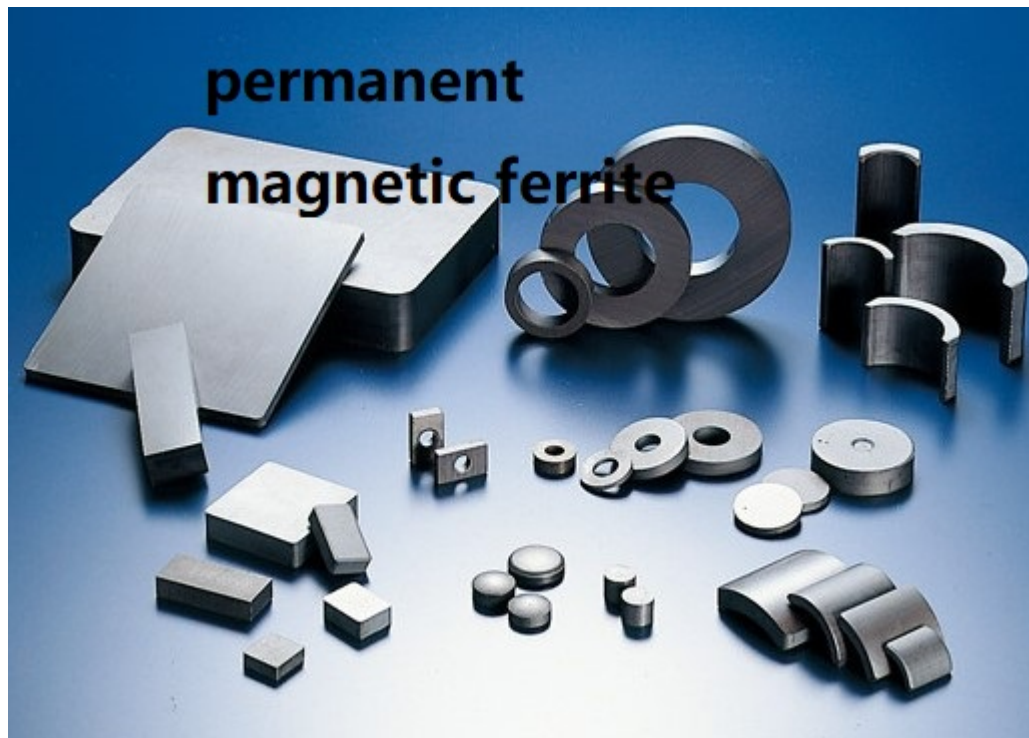
1. Motor Magnetic Tiles

Motor magnetic tiles are the company's core product line. These components are widely used in electric motors, including servo motors, stepper motors, BLDC motors, and industrial drive systems. The tiles are engineered for precise magnetic alignment, ensuring stable torque output and efficient energy conversion.

Key advantages include:

- High magnetic consistency across batches
- Precise geometric shaping for motor integration
- Strong resistance to demagnetization
- Suitable for high-speed motor operation
- Long operational lifespan under continuous load

These characteristics make them suitable for demanding industrial environments where performance stability is essential.



2. Sintered NdFeB Magnets

Sintered NdFeB (neodymium iron boron) magnets represent one of the most important categories in modern magnetic applications. The company produces high-grade sintered magnets used in compact and high-efficiency motors.

These products are designed using advanced powder metallurgy techniques, ensuring strong magnetic density and reliable structural integrity. They are widely used in electric vehicles, industrial robotics, and precision instruments.

3. Custom Magnetic Components

In addition to standard products, the company provides customized magnetic solutions tailored to client specifications. These include non-standard shapes, coated magnetic tiles, and application-specific assemblies designed for unique motor structures.

Customization services support:

- Special geometry requirements
- Temperature-resistant coatings
- Enhanced corrosion protection
- Application-specific magnetic tuning

This flexibility allows the company to serve diverse industries with varying technical requirements.

Material Engineering and Core Technology

A key strength of Dongyang Tianqi Motor Magnetic Tile Co., Ltd. lies in its advanced material engineering capabilities. The company integrates modern metallurgical processes with precision machining techniques to ensure optimal magnetic performance.

One of the most critical materials used in production is NdFeB, known for its extremely high magnetic energy product. The company's engineering team has developed optimized processing techniques that enhance magnetic stability and reduce performance degradation over time.

In advanced motor systems, high performance NdFeB materials play a crucial role in achieving higher efficiency, reduced energy loss, and improved torque density. By carefully controlling grain structure, composition ratios, and sintering temperature, the company ensures that each magnetic component meets strict industrial standards.

Manufacturing Capabilities

The production system at Dongyang Tianqi Motor Magnetic Tile Co., Ltd. is built on modern manufacturing principles, combining automation, precision engineering, and strict process control.

The manufacturing process includes:

Raw Material Preparation

High-quality rare earth materials are carefully selected and tested before production begins. Each batch is analyzed for purity, particle size distribution, and chemical stability.

Powder Processing and Forming

Advanced milling and pressing techniques are used to shape the magnetic powder into precise tile forms. This stage ensures uniform density and structural consistency.

Sintering Process

Sintering is conducted in controlled high-temperature environments to enhance magnetic alignment and structural strength. This process is critical for achieving stable magnetic performance.

Machining and Shaping

After sintering, components are precisely cut, ground, and shaped to meet exact dimensional specifications required by motor manufacturers.

Surface Treatment

To improve durability, magnetic tiles are treated with protective coatings that enhance resistance to corrosion, humidity, and environmental wear.

Quality Control System

Quality assurance is a fundamental part of the company's production philosophy. Every stage of manufacturing is monitored through strict inspection procedures to ensure product consistency and reliability.

The quality control system includes:

Raw material inspection before production
In-process dimensional and magnetic testing

Final product performance evaluation
Sampling-based batch verification
Environmental resistance testing

Advanced testing equipment is used to measure magnetic flux density, coercivity, and temperature stability. Only products that meet strict internal and international standards are approved for shipment.

The company's commitment to quality ensures that its magnetic components perform reliably in high-speed and high-load motor applications.

Sustainability and Environmental Responsibility

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. recognizes the importance of sustainable manufacturing practices in the modern industrial landscape. The company actively implements environmentally responsible production methods to minimize waste and reduce energy consumption.

Key sustainability initiatives include:

Recycling of manufacturing by-products
Energy-efficient furnace systems
Waste reduction in powder processing
Environmentally friendly coating materials
Continuous optimization of production efficiency

These efforts support global environmental goals while maintaining high production quality standards. Research and Development (R&D)

Innovation is one of the core driving forces behind Dongyang Tianqi Motor Magnetic Tile Co., Ltd. The company maintains a dedicated R&D department focused on advancing magnetic material performance and improving manufacturing precision for next-generation motor applications.

The R&D team continuously works on optimizing magnetic composition, improving thermal stability, and enhancing energy density. With increasing demand for compact and energy-efficient motors, especially in electric vehicles and industrial automation, the need for advanced magnetic solutions has become more critical than ever.

A major focus area is improving the performance of rare-earth magnets used in motor systems. Through continuous experimentation and material refinement, the company enhances the structural integrity and magnetic alignment of each product. In this context, high performance NeFeB plays a central role in enabling stronger magnetic output while maintaining compact size and stable operation.

Collaboration is also an important part of the company's innovation strategy. The R&D team works closely with universities, research institutions, and motor manufacturers to ensure that new product developments align with real-world application requirements.

Key R&D priorities include:

Increasing magnetic energy efficiency
Enhancing temperature resistance stability
Improving corrosion resistance coatings

Reducing material loss during production
Developing customized magnetic tile structures for specialized motors

Through these efforts, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. continues to strengthen its position as a forward-looking supplier in the global magnetic materials industry.

Applications Across Industries

The magnetic components produced by Dongyang Tianqi Motor Magnetic Tile Co., Ltd. are widely used across multiple industries, supporting a broad range of modern technologies.

1. Automotive Industry

In the automotive sector, magnetic tiles are essential components in electric motors used in EV drivetrains, power steering systems, cooling pumps, and braking systems. High efficiency and reliability are critical, and the company's products are designed to meet these demanding requirements.

2. Industrial Automation

Industrial robotics, CNC machines, and automated production systems rely heavily on precision motors. The stability and accuracy of motor magnetic tiles directly affect operational efficiency and performance consistency.

3. Home Appliances

Modern home appliances such as air conditioners, washing machines, and vacuum cleaners use compact, high-efficiency motors. The company's magnetic components help improve energy efficiency and reduce noise levels.

4. Renewable Energy Systems

Wind turbines and solar tracking systems require durable and efficient motor systems. Magnetic components must perform reliably under long-term operational stress and varying environmental conditions.

5. Medical and Precision Instruments

In medical imaging equipment and precision laboratory instruments, stable magnetic performance is essential for accuracy and reliability.

Global Market Reach

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. has expanded its business beyond domestic markets and now serves clients across Europe, North America, Southeast Asia, and the Middle East. The company's ability to deliver consistent product quality has enabled it to build long-term partnerships with international manufacturers.

Its global distribution strategy focuses on:

Reliable supply chain management
Fast production turnaround times
Consistent product quality across batches
Technical support for international clients

Flexible customization for regional market requirements

As global demand for electric mobility and energy-efficient systems continues to grow, the company is strengthening its international presence and expanding its customer base.

Customer Service and Technical Support

Customer satisfaction is a key priority for Dongyang Tianqi Motor Magnetic Tile Co., Ltd. The company provides comprehensive technical support and after-sales services to ensure that clients receive optimal performance from their products.

Support services include:

- Technical consultation for product selection
- Application-specific design guidance
- Sample testing and validation support
- Production tracking and logistics assistance
- Long-term partnership support programs

The company believes that strong communication and reliable service are essential for building long-term business relationships. By offering responsive support, it ensures that customers can integrate magnetic components smoothly into their production systems.

Future Development Strategy

Looking ahead, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. is focused on expanding its technological capabilities and strengthening its position in the global magnetic materials market.

Future development directions include:

- Expansion of automated production lines
- Development of ultra-high efficiency magnetic materials
- Increased investment in sustainable manufacturing
- Greater focus on electric vehicle and renewable energy markets
- Strengthening global supply chain partnerships

As industries continue to shift toward electrification and automation, demand for high-performance magnetic materials will continue to grow. The company is well-positioned to support this transition through innovation and scalable production capabilities. Packaging, Logistics, and Supply Chain Excellence

To support global customers with reliable and timely deliveries, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. has developed a well-structured packaging and logistics system designed specifically for precision magnetic components. Since magnetic materials require careful handling to avoid damage or performance loss, the company uses specialized packaging methods to ensure product integrity during transportation.

Each batch of magnetic tiles is individually inspected before packaging. The products are then placed into protective anti-static materials and reinforced containers that prevent impact, moisture exposure, and magnetic interference during shipping. For international shipments, additional protective layers are applied to ensure long-distance transportation safety.

The company collaborates with experienced logistics partners to manage domestic and

overseas distribution. These partnerships allow efficient coordination of sea, air, and land transportation, ensuring that products arrive at customer facilities on time and in optimal condition.

Supply chain management is another key strength of the company. By maintaining stable relationships with raw material suppliers and logistics providers, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. ensures consistent production scheduling and minimizes delays. This integrated supply chain approach enables the company to respond quickly to customer demands and large-scale orders.

Competitive Advantages in the Global Market

In the highly competitive magnetic materials industry, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. has established several strong advantages that differentiate it from other manufacturers.

One of the primary strengths is its strong technical expertise in magnetic material processing and motor application design. The company's engineering team has deep experience in optimizing magnetic performance for various motor types, ensuring compatibility with modern industrial systems.

Another key advantage is its focus on precision manufacturing. Through advanced equipment and strict process control, the company ensures consistent product dimensions and stable magnetic performance across all production batches. This level of consistency is essential for high-speed motors and automated systems where even small variations can affect performance.

The company also benefits from its flexible production capability. It can efficiently handle both large-scale industrial orders and customized small-batch production. This flexibility allows it to serve a wide range of customers, from global manufacturers to specialized equipment developers.

In addition, strong quality assurance systems and international compliance standards further enhance its competitiveness. By meeting global certification requirements and maintaining strict internal quality checks, the company ensures that its products are accepted in diverse international markets without barriers.

Finally, the company's customer-oriented approach strengthens long-term partnerships. By providing responsive communication, technical support, and tailored solutions, Dongyang Tianqi Motor Magnetic Tile Co., Ltd. builds trust and reliability with its global clients.

Conclusion

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. stands as a professional manufacturer specializing in advanced magnetic components for modern motor systems. Through continuous innovation, strict quality control, and strong engineering expertise, the company has established itself as a reliable supplier in the global magnetic materials industry.

Its focus on material science, precision manufacturing, and customer-oriented service enables it to deliver stable and efficient solutions for a wide range of applications, from automotive systems to industrial automation and renewable energy technologies.

With ongoing investment in R&D and production capacity, the company continues to advance its capabilities in high performance NeFeB magnetic technology, ensuring that it remains

competitive in a rapidly evolving global market.

Dongyang Tianqi Motor Magnetic Tile Co., Ltd. is committed to delivering value through quality, innovation, and long-term partnership, supporting the future development of high-efficiency motor systems worldwide.

For more information, please visit:

<https://www.magneticsegment.com/>